## FAILURE MODES EFFECTS ANALYSIS (FMEA) -- CIL HARDWARE

NUMBER: 05-6BA-2244 -X

SUBSYSTEM NAME: EPD&C - LANDING GEAR CONTROL

REVISION: 5 05/30/91

PART DATA

PART NAME VENDOR NAME

PART NUMBER **VENDOR NUMBER** 

LRU

: D&C PANEL R15

V070-730328

SRU

: CIRCUIT BREAKER

MC454-0026-2030

EXTENDED DESCRIPTION OF PART UNDER ANALYSIS: CIRCUIT BREAKER (3 AMPS), LANDING GEAR ARM/DOWN RESET

REFERENCE DESIGNATORS: 32V73A15CB60

QUANTITY OF LIKE ITEMS: 1

ONE

FUNCTION:

PROVIDES POWER TO THE LANDING GEAR ARM/DOWN RESET TOGGLE SWITCH. NORMALLY OPEN DURING FLIGHT.

		NUMBER: 05-6BA-2244-02				
REVISION SUBSYSTEM NAME: EPD&C - LANDING GEAR CONTROL LRU: D&C PANEL R15 ITEM NAME: CIRCUIT BREAKER			REVISION: CONTROL	N#: 6 07/01/99  CRITICALITY OF THIS FAILURE MODE: 1R2		
FAILURE MODE: FAILS CLOSED (FAILS TO	OPEN MECHAI	NICALLY	")	-		
MISSION PHASE:	DO DE-ORBI	т				
VEHICLE/PAYLOAD/KIT EF	FECTIVITY:	102 103 104 105	DISCOVERY ATLANTIS			
CAUSE: STRUCTURAL FAILURE, MI PROCESSING ANOMALY	ECHANICAL SH	ЮСК, У	ibration, con	ITAMINAT!O	<b>N</b> ,	
CRITICALITY 1/1 DURING II	VTACT ABORT	ONLY?	NO			
REDUNDANCY SCREEN	A) PASS B) PASS C) PASS					
PASS/FAIL RATIONALE: A)						
В)						
C)						
	- FAILU	RE EFF	ECTS .	<u> </u>		
(A) SUBSYSTEM: FIRST FAILURE - NO EFFEC	<u>.                                      </u>			<u></u>		
(B) INTERFACING SUBSYSTI FIRST FAILURE - NO EFFECT	EM(S):					

FAILURE MODES EFFECTS ANALYSIS FMEA -- CIL FAILURE MODE

# FAILURE MODES EFFECTS ANALYSIS (FMEA) -- CIL FAILURE MODE NUMBER: 05-6BA-2244- 02

(C) MISSION:

FIRST FAILURE - NO EFFECT

## (D) CREW, VEHICLE, AND ELEMENT(S):

FIRST FAILURE - NO EFFECT

#### (E) FUNCTIONAL CRITICALITY EFFECTS:

POSSIBLE LOSS OF CREW/VEHICLE AFTER SECOND FAILURE (LANDING GEAR ARM/DOWN RESET SWITCH FAILS "ON") DUE TO INABILITY TO SET LANDING GEAR ARM/DOWN RELAYS FOR LANDING GEAR DEPLOYMENT.

#### -DISPOSITION RATIONALE-

## (A) DESIGN:

REFER TO APPENDIX D. ITEM NO. 1 - CIRCUIT BREAKER

#### (B) TEST:

REFER TO APPENDIX D, ITEM NO. 1 - CIRCUIT BREAKER

#### GROUND TURNAROUND TEST

ANY TURNAROUND CHECKOUT TESTING IS ACCOMPLISHED IN ACCORDANCE WITH OMRSD.

### (C) INSPECTION:

REFER TO APPENDIX D. ITEM NO. 1 - CIRCUIT BREAKER

#### (D) FAILURE HISTORY:

CURRENT DATA ON TEST FAILURES, FLIGHT FAILURES, UNEXPLAINED ANOMALIES, AND OTHER FAILURES EXPERIENCED DURING GROUND PROCESSING ACTIVITY CAN BE FOUND IN THE PRACA DATA BASE.

### (E) OPERATIONAL USE:

NONE

## FAILURE MODES EFFECTS ANALYSIS (FMEA) - CIL FAILURE MODE NUMBER: 05-8BA-2244- 02

- APPROVALS -

EDITORIALLY APPROVED TECHNICAL APPROVAL : BNA

: VIA APPROVAL FORM

96-CIL-011\_05-6BA(2)